

UNITED STATE CEPARTMENT OF COMMERCE Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

QM32/0209

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1020 WALNUT STREET SUITE 620
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APP	LICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT		DATE MAILED
	09/272,764	63/19/99	005	JAWORSKI, F	3737	02/09/01
First Name Applicant	SHI,		35 U	SC 154(b) term ext. =	0 Day	Ξ σ

INVENTIONMETHOD AND SYSTEM FOR PRESSURE ESTIMATION USING SUBHARMONIC SIGNALS FROM MICROBUBBLE-BASED ULTRASOUND CONTRAST AGENTS

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
3 SHI01.NPO	01 600-4	38.000 E	881 UTILIT	Y YES	\$620.00	05/09/01

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED.</u>

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above.

 If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

 Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY

	Application No.	Applicant(s)	
	09/272,764	Shi Art Unit	
Notice of Allowa July	Examiner		
· •	JAWORSKI	3737	
	000		
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance and Issue ITHIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE initiative of the Office or upon petition by the applicant. See 37 Cl	(OR REMAINS) CLOSED in this appress of the community of t	olication. If not included unication will be mailed in due course.	
 This communication is responsive to CPA IT DS The allowed claim(s) is/are 1-5. The drawings filed on //e/o/ are acceptable as formal drawn. Acknowledgment is made of a claim for foreign priority under the communication of the communication is responsive to CPA IT DS 	vings.		
a) All b) Some* c) None of the:		•	
 Certified copies of the priority documents have 	been received.		
2. Certified copies of the priority documents have	been received in Application No	·	
3. Copies of the certified copies of the priority do	cuments have been received in this r	national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgement is made of a claim for domestic priority to	under 35 U.S.C. § 119(e).		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of tFOR SUBMITTING NEW FORMAL DRAWINGS, OR A SUBSTICOMPLYING WITH THE REQUIREMENT FOR THE DEPOSIT OF BI	this application. THIS THREE-MON TUTE OATH OR DECLARATION. T OLOGICAL MATERIAL is extendal	ITH PERIOD IS NOT EXTENDABLE This three-month period for ble under 37 CFR 1.136(a).	
 Note the attached EXAMINER'S AMENDMENT or NOTICE the oath or declaration is deficient. A SUBSTITUTE OATI 			
7. Applicant MUST submit NEW FORMAL DRAWINGS (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing of the proposed drawing drawing of the proposed drawing drawing drawing drawing drawing drawing drawing drawing drawing d	correction filed, which has be	en approved by the examiner.	
(c) including changes required by the attached Examiner	s Amendment / Comment or in the C	office action of Paper No	
Identifying indicia such as the application number (see 37 should be filed as a separate paper with a transmittal letter			
8. Note the attached Examiner's comment regarding REQUIF	REMENT FOR THE DEPOSIT OF BI	OLOGICAL MATERIAL.	
Any reply to this letter should include, in the upper right hand corn applicant has received a Notice of Allowance and Issue Fee Due, ALLOWANCE should also be included.			
Attachment(s)			
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No	4☐ Interview Summa Z 6☐ Examiner's Amer	I Patent Application (PTO-152) Iry (PTO-413), Paper No Idment/Comment ment of Reasons for Allowance	
		Interpretation	

Application/Control Number: 09/272,764

Art Unit: 3737

1. The following is an examiner's statement of reasons for allowance: Chang et al and

Krishna et al (newly of record with the IDS filed January 10, 2001) is directed to measurement of

second harmonic doppler amplitude versus applied acoustic pressure or pressure of transmission.

None of the cited art, alone or in combination teaches or suggests a method of measuring

hydtostatic pressure by correlation to a calibrated correlation curve or contrast agent adapted for

measuring pressure wherein the microbubbles are adapted to change significantly in size under

application of pressure soas to optimize the sub or ultraharmonic response as an indication of

pressure.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication should be directed to Examiner Francis J.

Jaworski at telephone number (703) 308-3061.

FJJ:fii

2-8-01

Page 2